Ontario

Ministry of Natural Resources

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

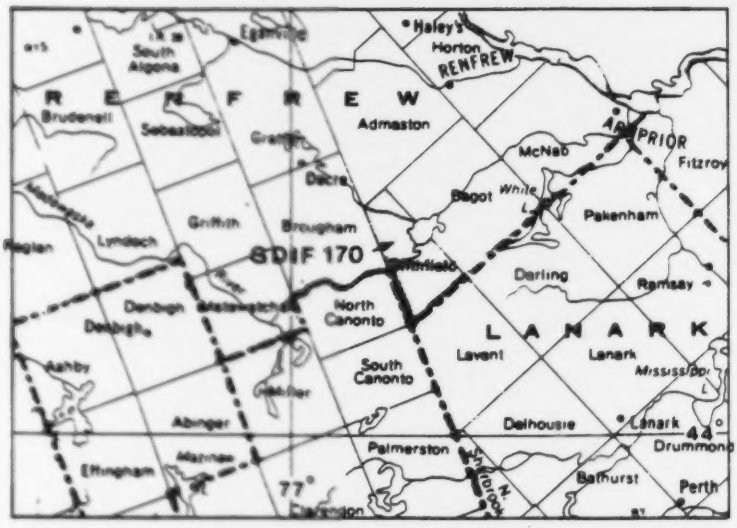
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 170

BLITHFIELD TOWNSHIP

COUNTY OF RENFREW

Compiled by the Staff of
the Resident Geologist's Office
Bancroft



LOCATION MAP

Scale 1:1 013 760 or 1 inch to 16 miles

85-6407/

NTS Number 31F/2, 31F/7

Mining Claim Map Number M.55

This inventory was aided by the Ontario Ministry of Natural Resources Section 38 Special Employment Program, Bancroft.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1984: Blithfield Township, Renfrew County; Ontario Geological Survey, Geological Data Inventory Folio 170, compiled by staff of the Resident Geologist's Office, Bancroft, 28 p. and 2 maps.

Original Compilation by: Karen Fell, Peggy Hogarth, John Pollak, Karen Bellamy, Arlene Wilkinson, Charmaine Devitt, Chris Altoft, January, 1984.

Date	Page Revised	Revised by

Date	Page Revised	Revised by

BLITHFIELD TOWNSHIP

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ACCOMPANYING MAPS

Property Location Map : 1 map

Exploration Data Map : 1 map

Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this map. If no reference data was found, the appropriate box is marked 'no'; if reference was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	P.H.
2	Assessment Files Research Office, Toronto		
3	ODM General Index; 7 volumes	Yes	K.F.
4	Catalogue of Airborne Geophysical Surveys (ODM)		
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	K.F.
6	ODM Industrial Mineral Reports	Yes	K.F.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	K.F.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	K.F.
9	Newspaper Clippings File		
10	GSC Index to Publications	Yes	K.F.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	K.F.
12	OGS Index Maps	Yes	K.F.
13	Source Mineral Deposit Records (O.G.S.) & M.D.I.R.s (O.G.S.)	Yes	K.F.
14	Author - Subject Articles File		
15	Miscellaneous Papers: ODM & OGS	Yes	K.F.
16	ODM Geological Circulars: OGS Study Series	No	K.F.
17	ODM Preliminary Reports: ODM Bulletins	No	K.F.
18	ODM – OGS Open File Reports	Yes	K.F.
19	OGS Northern Ontario Engineering Geology Terrain Studies	No	K.F.
20	OGS Aggregate Resources Inventory Papers	No	K.F.
21	OGS Mineral Potential Maps	Yes	K.F.
22	OGS Guidebook Series	No	K.F.
23	OGS Mineral Policy Background Papers	No	K.F.
24	OGS Occasional Papers	No	K.F.
25	ODM Papers	No	K.F.
26	OGS/OMNR Annual Statistical Reports	Yes	K.F.
27	OGS Industrial Mineral Background Papers (1-3)	No	K.F.
28	OGS Geophysical Reports	N.A.	K.F.
29	DEMR/National Mineral Inventory Cards	Yes	K.F.

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . .Anhydrite
△ ank. . . . . .Ankerite
△ anna . . . . . Annabergite
△ ap. . . . . .Apatite
△ arg . . . . . Argentite
△ As . . . . . .Arsenic
△ asp . . . . . .Arsenopyrite
▲ asb . . . . . .Asbestos
△ ba. . . . . .Barite
△ be. . . . . .Beryl
△ Bi. . . . . .Bismuth
△ bn . . . . . .Bornite
△ bran . . . . . .Brannerite
△ bruc . . . . . .Brucite
△ Cd . . . . . Cadmium
△ calc. . . . . Calcite
△ carb . . . . . .Carbonate
△ cel . . . . . .Celestite
△ cc. . . . . .Chalcocite
△ cp. . . . . .Chalcopyrite
△ ch. . . . . .Chert
△ clay . . . . . .Clay
△ Co . . . . . Cobalt
△ cob. . . . . Cobaltite
△ cb. . . . . .Columbite
△ Cu . . . . . .Copper
△ cor . . . . . Corundum
△ dol . . . . . Dolomite
△ ep. . . . . Epidote
△ ery . . . . . Erythrite
▲ fel . . . . . .Feldspar
△ fl . . . . . .Fluorite (flurospar)
△ fu. . . . . .Fuchsite
△ gn. . . . . Galena
▲ gt . . . . . Garnet
△ goe . . . . . .Goethite
△ Au . . . . . Gold
▲ gf . . . . . .Graphite
△ gl . . . . . Gravel
△ gyp. . . . . Gypsum
△ hem . . . . . Hematite
△ il . . . . . Ilmenite
▲ Fe . . . . . .Iron
△ IF. . . . . Iron Formation
△ jas . . . . . Jasper
△ kaol . . . . . .Kaolinite (kaolin)
△ ky . . . . . Kyanite
△ Pb . . . . . Lead
▲ lim . . . . . Limonite
△ Li. . . . . Lithium
△ mgst . . . . . Magnesite
▲ mag . . . . . .Magnetite
△ mc . . . . . Malachite
△ Mn . . . . . Manganese
▲ mb . . . . . Marble
△ mar. . . . . Marcasite
△ ma . . . . . .Marl
△ mi . . . . . Mica
△ ml . . . . . Millerite
△ mo . . . . . Molybdenite
▲ Mo . . . . . .Molybdenum
△ mon . . . . . Monazite
△ ne. . . . . Nephelite (nepheline)
△ nc. . . . . .Niccolite
△ Ni. . . . . Nickel
△ Nb . . . . . .Niobium
△ Pd . . . . . Palladium
△ peat . . . . . .Peat
△ pent . . . . . Pentlandite
△ Pt. . . . . .Platinum
▲ py . . . . . .Pyrite
△ pyl . . . . . Pyrochlore
△ pyrl . . . . . .Pyrolusite
△ po . . . . . .Pyrrhotite
△ q . . . . . Quartz
△ qcv. . . . .Quartz carbonate vein
△ ra. . . . . .Radioactive minerals
△ RE . . . . . .Rare Earths
△ sd. . . . . Sand
△ sgl . . . . . Sand and gravel
△ ss . . . . . .Sandstone
△ scap . . . . . Scapolite
△ shee . . . . . .Scheelite
△ serp . . . . . Serpentine
△ sh. . . . . Shale
△ sid . . . . . Siderite
△ si . . . . . Silica
△ Ag . . . . . .Silver
△ sl . . . . . Slate
△ sm . . . . . .Smaltite
△ sod . . . . . Sodalite
△ spec . . . . . Specularite
△ sp. . . . . .Sphalerite
△ spd. . . . . .Spodumene
△ staur . . . . . Staurolite
△ stib. . . . . Stibnite
△ st . . . . . .Stone
△ talc. . . . . .Talc
△ Te . . . . . Tellurium
△ td. . . . . Tetrahedrite
△ th. . . . . .Thorite
△ Th . . . . . .Thorium
△ thuc . . . . . Thucholite
△ ti . . . . . Titanite
△ Ti. . . . . Titanium
▲ tour . . . . . .Tourmaline
△ trap . . . . . Trap rock
△ W. . . . . Tungsten
△ uran . . . . . Uraninite
▲ U . . . . . .Uranium
△ verm . . . . . .Vermiculite
△ Y . . . . . Yttrium
△ Zn . . . . . .Zinc
△ zr. . . . . Zircon
trem. . . . . .tremolite
S . . . . . .sulphur

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	BARRYVALE DEPOSIT -Lot 13 Con 1	Fe (mag)	S00327	MDC 20 p.82 MRC 11 p.319	OGS Maps: 2462,P2211,53b,P2565 GSC Map: 1046A, 67C OGS OFR 5425 p.276 ODM AR 53-3 p.51,58 GSC 25 p.128 GSC Paper 51-27 p.45 GSC Bulletin 45 p.11,12 DEMR/CANMET Rpt.217 p.125 DEMR/CANMET Sum.Rpt.63 p.82-88
B	CALDWELL MINE (Blithfield Deposit) -Lots 1,2, Con 1	Fe (py), S	S00329	MDC 20 p.83-86 MRC 5 p.16	OGS Maps: 2462,P2211,53b,P2565 ODM 25-1 p.127,199 ODM AR 53-3 p.93-96 ODM 28-1 p.153 ODM 29-1 p.120,121 OGS OFR 5425 p.269,283 NMI #507994 GSC Memoir 170 p.70 GSC Sum.Rpt. 1919 Pt E p.30-35 Bishop,A.G. 1978 M.Sc. Thesis
C	BLITHFIELD TOWNSHIP - Lot1, Con 1	lim			OGS Map P2565 OGS OFR 5425 p. 225 DEMR/CANMET Sum.Rpt.586 p.10
D	BLITHFIELD TOWNSHIP -Lots 5-10, Con 2,3	lim			OGS Map P2565 OGS OFR 5425 p.226 GSC AR 9-A p.59 DEMR/CANMET Sum.Rpt.586 p.10

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
E	BLITHFIELD TOWNSHIP -Lot 14, Con 1	mb			OGS Maps: 53b,2462,P2565 GSC Map 1046A OGS OFR 5425 p.170 GSC Rpt.of Progress 1845/46 p.46
F	CALABOGIE LAKE -Lots 16-19, Con 2,3	mb	S00398	MDC 21 p.63-64	OGS Maps: P2565,53b,P1980,2462, GSC Map 1046A OGS OFR 5425 p.170,171 GSC Paper 51-27 p.29 DEMR/CANMET 100 Vol 1 p.326,327 DEMR/CANMET 781 p.174
G	BLITHFIELD TOWNSHIP -Lots 20-22, Con 3 (south pt) -Lots 22-23, Con 1 (north pt)	mb		MDC 21 p.40-45	OGS Maps: 53b,2462,P2565 GSC Map 1046A ODM AR 53-3 p.62,99 OGS OFR 5425 p.170,171 OGS GR 212 GSC Paper 51-27 p.29
H	FERGUSON LAKE ROAD	fel		MDC 22 p.166	OGS Maps: 53b,2462,P2565 GSC Map 1045A OGS OFR 5425 p.54
I	BLITHFIELD TOWNSHIP -Lot 25, Con 5	gf		MDC 22 p.58-59 IMR 20 p.44	OGS Maps: 53b,2462,P2565 GSC Map 1046A ODM AR 53-3 p.42,43 OGS OFR 5425 p.131,132,224

GDIF FORM NO. 1

BLITHFIELD TOWNSHIP

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
J	MADAWASKA RIVER BANK	gf	S00108	MDC 22 p.54 IMR 20 p.44	OGS Maps: P2209,53b, 2462,P2565 ODM AR 53-3 p.42,43 OGS OFR 5425 p.131 GSC AR Vol 14-J p.70 GSC Sep.Rpt. 977 p.25 DEMR/CANMET 18 p.49
K	PIERRE LAKE (Carswell) -Lot 22, Con 4	asb, trem	S00109	MDC 22 p.196 IMR 36	OGS Maps: 53b,P2209,P1507,2462, P2565 GSC Maps: 1046A, 67G ODM AR 53-3 p.19 ODM AR 55-1 p.35 OGS OFR 5425 p.289,273 NMI # 065049 GSC Paper 69-45 p.496,574 GSC Paper 51-27 p.26
L	POWER LINE -Lot 25, Con 4	gt	S00081	MDC 22 p.42	OGS Maps: 53b,2462,P2565,P2209 GSC Map 1046A OGS OFR 5425 p.95 GSC Paper 51-27 p.6,31
M	QUILTY DEPOSIT -west½ Lot 29, Con1	Mo	S00328	MDC 20 p.140,141 MRC 7 p.57,58	OGS Maps: 53b,P2211 GSC Maps: 1046A,67G ODM AR 53-3 p.77 ODM AR 26 p.290 NMI # 508645 GSC Paper 51-27 p.60

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
M	QUILTY DEPOSIT (continued)				GSC Ec.Geol.Ser. 20 p.164 DEMR/CANMET 592 p.87-89
N	AXIOTIS DEPOSIT -Lots 12,13 Con 6	U			H.D.Meyn,property visit 1982 Assessment Files: 1,2,8,9,10,12
O	BLITHFIELD TOWNSHIP -Lots 10,11 Con 6,7	U			Assessment Files: 3,5,6,7,10
P	BLITHFIELD TOWNSHIP - Lots 11,12 Con 4	U			Assessment Files: 2,14,16,10
Q	BLITHFIELD TOWNSHIP -Lots 9,10 Con 7	U			Assessment Files: 4,10,11
R	RAGGED CHUTE (High Falls) -Lot 13, Con 13	tour			OGS Maps: P2565,53b,2462 OGS OFR 5425 p. 152,251,284-285 GSC Rpt.of Progress 1863 p.35

GDIF FORM NO. 1

BLITHFIELD TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE BANCROFT COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
1	NICKOLAS AXIOTIS			69				69												
2	"			69				69												
3	"			70				70												
4	"			70				70												
5	"			71				71												
6	"			71				71												
7	"			72				72												
8	"			72				72												
9	"			74				74												

GDIF FORM NO. 2

TYPE OF WORK

EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE
BANCROFT

Numbers below represent the year in which the work was done; e.g., 68 for 1968.

	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
10	NICKOLAS AXIOTIS K.M. Bowser							77			77									
11	NICKOLAS AXIOTIS			78				78												
12	NICHOLAS AXIOTIS P.G. Lacombe & Associates							78	78											
13	NORMAN PILATZKE			80				80												
14	NICHOLAS AXIOTIS			82				82												
15	NORMAN PILATZKE			81				81												
16	NICKOLAS AXIOTIS			82																
17	NORMAN PILATZKE			83																

GDIF FORM NO. 2

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for

GDS FORM NO. 3

10 BLITHFIELD TOWNSHIP

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
	by: P.G. Lacombe & Associates for: N. Axiotis	Airborne Spectromtric Survey	250'		1/8 mile

GDI FORM NO. 4

BLITHFIELD TOWNSHIP

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Bancroft

GDIF FORM NO.

ODM GENERAL INDEX SEARCH

Words searched:

BLITHFIELD TOWNSHIP

Index Volume	Listing:	Report Volume	Part	Page
1	BLITHFIELD TOWNSHIP			
	molybdenite	25	1	19
	ochre	9	-	205
	pyrite	25	1	127,199
	stealite & talc	9	-	210
	tourmaline & tremolite	9	-	211
2	BLITHFIELD TOWNSHIP			
	Caldwell Pyrite Mine	26	-	45,134
	iron ore	I.O.	-	223
	molybdenite	26	-	290
	pyrite mining	27	1	132,50
	"	28	1	153,53
	mining	29	1	41,120,121
	"	30	1	26,133
	"	31	1	23
	"	32	1	24
	"	33	1	21
	"	34	1	28
	"	35	1	34
3	BLITHFIELD TOWNSHIP			
	pyrite	36	1	34
	"	39	1	33
	"	40	1	29
4	BLITHFIELD TOWNSHIP			
	asbestos	53	3	19
	"	54	2	1
	"	55	2	1
	graphite	53	3	42,43
	iron	53	3	58,51
	limestone	53	3	62
	molybdenite	53	3	77
	pyrite	53	3	93-96
	rocks	53	3	8,9
	stone	53	3	99
	asbestos	55	1	35
8	BLITHFIELD TOWNSHIP			
	asbestos	IMR 36		25
	iron	MRC 11		319
	molybdenum	MRC 7		57
	pyrite	MRC 5		16

ODM GENERAL INDEX SEARCH

Words searched

Index Volume	Listing	Report Volume	Part	Page

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL MAPS WITHOUT REPORTS		
Lumbers, S.B.	1976	Ontario Geological Map, Southern Sheet, NTS 30/NW, 31/S, 40/NE, 41SE, (revision of map 2197)	OGS Map 2392	1" = 16 miles
Meyn,H.D., Howarth, J.R.	1977	Molybdenum Deposits of Ontario, Southern Sheet, Southern Ontario and District of Nipissing; OGS Preliminary Map, Mineral Deposits Series. Compilation 1975,1976.	OGS Map P1247	1" = 16 miles
Meyn, H.D., Robertson,J.A.	1975	Iron Deposits of Ontario, Southern Sheet, Southern Ontario and District of Nipissing; ODM Preliminary Map, Mineral Deposits Series. Compilation 1972, 1973, 1974	ODM Map P1044	1" = 16 miles
Ontario Geological Survey	1974	Ontario Mineral Map	OGS Map 2310	1" = 25 miles
Robertson,J.A., Gordon, J.B., Rybak, R.	1981	Uranium and Thorium Deposits of Ontario, Southern Sheet, Southern Ontario and Nipissing, Muskoka, Parry Sound, Sudbury, and Manitoulin Districts; Mineral Deposits Series. Compilation 1978,1980,81	OGS Map P2424	1" = 16 miles
		GEOLOGICAL REPORTS WITH MAPS		
Carter,T.R., Colvine, A.C. & Meyn, H.D.	1980	Geology of Base Metal, Precious Metal, Iron and Molybdenum Deposits in the Pembroke-Renfrew Area	OGS MDC 20 OGS Map P2211	186 p. 1" = 2 miles
Eardley-Wilmot,V.L.	1925	Molybdenum: Metallurgy and Uses and the Occurrence; Mining and Concentration of its Ores; Canada Department of Mines, Mines Branch	DEMR/CANMET #592 Map 595	292 p. 1" = 35 miles

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Ells, R.W.	1902	Report on the Geology of a Portion of Eastern Ont.	GSC AR Vol 14 Pt J GSC Map 789	p.1-75 1" = 4 miles
Ells,R.W.	1907	Report on the Geology and Natural Resources of the Area included in the Northwest Quarter-Sheet, #122 of the Ontario and Quebec Series Comprising Portions of the Counties of Pontiac, Carlton, Renfrew	GSC Sep.Rpt. 977 GSC Map 660	71 p. 1" = 4 miles
Goudge,M.F.	1938	Limestones of Canada, Part 4, Ontario; Canada Department of Mines, Mines Branch	DEMR/CANMET #781 Map 782	362 p. 1:4,400
Giroux, N.J.	1897	Work in the Area of the Ottawa and Cornwall Sheets, Ontario and Quebec	GSC AR Vol 9 Pt A GSC Map 903	p.59-64 1" = 4 miles
Lindeman,E., Bolton,L	1917	Iron Ore Occurrences in Canada; Canada Department of Mines, Mines Branch	DEMR/CANMET #217 Map 249	222 p.
Lumbers,S.B.	1982	Summary of Metallogeny, Renfrew County Area; Accompanied by maps 2459, 2460, 2461, 2462, and chart.	OGS GR 212 OGS Map 2462	58 p. 1:100,000
Martin, Wendy	1983	Industrial Minerals of the Algonquin Region, Ont. Accompanied by maps P2562, P2563, P2564, P2565, P2566, P2567	OGS OFR 5425 OGS Map P2565	316 p. 1:125,000
Quinn,H.A.	1952	Renfrew Map Area, Renfrew and Lanark Counties, Ont.	GSC Paper 51-27 GSC Map 1046A	79 p. 1" = 1 mile
Rose, E.R.	1969	Geology of Titanium and Titaniferous Deposits of Canada	GSC Ec.Geol.Ser.25 GSC Map 1243A	177 p. 1" = 120 miles
Satterly,J.	1945	Mineral Occurrences in the Renfrew Area	ODM AR Vol 53 Pt 3 ODM Map 53b	139 p. 1" = 2 miles

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Author	Date	Title	Reference	Map Scales and/or Report Pages
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Storey,C.C.,Vos,M.A.	1981	Industrial Minerals of the Pembroke-Renfrew Area Part 1: Marble	OGS MDC 21 OGS Map P1980	132 p. 1:126,720
"	1981	Industrial Minerals of the Pembroke-Renfrew Area Part 2	OGS MDC 22 OGS Map 2209	214 p. 1" = 2 miles
Vokes,F.M.	1963	Molybdenum Deposits of Canada	GSC Ec.Geol.Ser. 20 GSC Map 1045A	332 p. 1" = 120 miles
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Wilson, M.E.	1920	Mineral Deposits in the Ottawa Valley	GSC Sum.Rpt.1919 Part E GSC Map 1798	p.19-44
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Card,J.W., Bell,K.	1982	Grant 105, Latter Stage Decay Products of 222Rn-Use in Radioactive Waste Management p.29-36 in Geoscience Research Grant Program, Summary of Research 1981-1982, Edited by E.G. Pye	OGS MP 103	219 p.
Cirkel, Fritz	1907	Graphite: its properties, occurrence, refining, and uses	DEMR/CANMET #18	307 p.
Eve,A.S., Keys,D.A., Gilchrist,L.,Wright,J.F.	1932	Studies of Geophysical Methods 1930	GSC Memoir 170	

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Author	Date	Title	Reference	Map Scales and/or Report Pages
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Freeman,B.C.	1936	Mineral Deposits in Renfrew County & Vicinity	GSC Memoir 195	34 p.
Gibson,Shirley J.	1973	Southern Ontario District, p.105-119, in Annual Report of Resident Geologists' Section, Geological Branch 1972, Ontario Division of Mines.	OMNR/MP 54	180 p.
Gordon,J.B.,Colvine,A.C., Vos,M.A.	1977	Mineral Resource Studies in the Pembroke-Renfrew Area, Southeastern Ontario, p.191-192, in Summary of Field Work, 1977, by the Geological Branch, edited by V.G. Milne, O.L. White, R.B. Barlow, & J.A. Robertson	OGS MP 75	208 p.
"	1978	Mineral Resource Studies in the Pembroke-Renfrew Area, Southeastern Ontario, p.180-181, in Summary of Field Work, 1978, by the Ontario Geological Survey, edited by V.G.Milne, O.L.White, R.B.Barlow, & J.A. Robertson	OGS MP 82	235 p.
Gordon,J.B., Rybak,U.C., & Robertson,J.A.	1981	Uranium and Thorium Deposits of Southern Ontario	OGS OFR 5311	665 p.
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Author	Date	Title	Reference	Map Scales and/or Report Pages
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"	1919	"	ODM AR Vol 28 Pt 1	p.1-95
Goudge, M.F.	1927	Preliminary Report on the Limestones of Quebec and Ontario; Canada Department of Mines, Mines Branch	DEMR/CANMET #682	75 p.
Guillet, G.R.	1970	Annual Report of Resident Geologists' Section, Geological Branch 1969, Part 4, Southern Ontario	ODM MP 36	33 p.
Hewitt, D.F.	1965	Graphite in Ontario	ODM IMR 20	66 p.
"	1967	Pyrite Deposits of Ontario	ODM MRC 5	64 p.
Hopkins, P.E.	1916	Iron Pyrites Deposits in Southeastern Ontario	OBM AR Vol 25 Pt 1	p.192-199
Johnston, F.J.	1968	Molybdenum Deposits of Ontario	ODM MRC 7	98 p.
Logan, W.E.	1847	On the Topography and Geology of the Ottawa River and some of its Tributaries, with Notes on Economic Minerals	GSC Rpt.of Progress	for 1845-46
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Matten, E.E.	1978	Statistical Report on the Mineral Industry of Ontario, 1974	OMNR ASR Vol 7	210 p.
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Ontario Department of Mines	1948	List of Mines, Quarries, and Works, 1944	ODM AR Vol 54 Pt 2	p.1-127
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"	1922	Statistical Review of the Mineral Industry in 1920	ODM AR Vol 30 Pt 1	p.1-54
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Author	Date	Title	Reference	Map Scales and/or Report Pages
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"	1925	Statistical Review of Ontario's Mineral Industry in 1923	ODM AR Vol 33 Pt 1	63 p.
"	1926	Statistical Review of Ontario's Mineral Industry in 1924	ODM AR Vol 34 Pt 1	p.1-60
Rogers,W.R. & Young,A.C.	1926	Statistical Review of Ontario's Mineral Industry in 1925	ODM AR Vol 35 Pt 1	p.1-63
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"	1930	Statistical Review	ODM AR Vol 39 Pt 1	p.1-68
"	1931	Statistical Review of Ontario's Mineral Industry in 1930	ODM AR Vol 40 Pt 1	p.1-50
Rose, E.R.	1958	Iron Deposits of Eastern Ontario and Adjoining Quebec	GSC Bulletin 45	120 p.
Satterly,J.	1977	A Catalogue of the Ontario Localities Represented by the Mineral Collection of the Royal Ontario Museum	OGS MP 70	464 p.
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Sutherland,T.F., Collins, E.A., Stovel,J.H., & Webster, A.R.	1919	Mines of Ontario	ODM AR Vol 28 Pt 1	p.104-186
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Traill, R.J.	1970	A Catalogue of Canadian Minerals, Department of Mines and Resources	GSC Paper 69-45	649 p.
Tremblay, M.	1948	Statistical Review of the Mineral Industry of Ontario for 1945	ODM AR Vol 55 Pt 1	p.1-61
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Barnett,P.J.	1977	#31 Quaternary Geology of the Renfrew (31F/7), Cobden (31/10), and Fort Coulonge (31F/15) Areas, Renfrew & Lanark Counties, p.151-153, in Summary of Field Work,1977, by the Geological Branch, edited by V.G. Milne, O.L. White, R.B. Barlow, & J.A. Robertson	OGS MP 75	208 p.
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Chapman,L.J.,Putnam,D.F.	1966	The Physiography of Southern Ontario; published for the Ontario Research Foundation by University of Toronto Press, 2nd edition. Accompanied by 4 maps and generalized map.	Map 2227	386 p. 1:250,000

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"	1974	Clyde Forks, Ontario (31F/2)		1:50,000
"	1977	Pembroke, Ontario-Quebec (31F)		1:250,000
		GEOCHEMICAL		
Ontario Geological Survey-Geological Survey of Can.	1977	Geochemical Reconnaissance in Lake Sediments, Southern Ontario (31F), data gathered 1976.	OGS OFR 5228 GSC OF 406	1:250,000 1:250,000
		GEOPHYSICAL MAPS		
Geological Survey of Can.	1952	Clyde, Renfrew, Frontenac, & Lanark Counties, Ont; Aeromagnetic Map	GSC Map 68G	1" = 1 mile
"	1951	Renfrew & Lanark Counties, Ontario; Aeromagnetic Map	GSC Map 67G	1" = 1 mile
"	1981	Pembroke, Ontario-Quebec; Geophysical Series, Aeromagnetic Map	GSC Map 7057G	1:250,000
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GDIF FORM NO.9

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Author	Date	Title	Reference	Map Scales and/or Report Pages
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Ontario Department of Mines - Geological Survey of Canada	1972	Great Lakes - Ottawa River Sheet, Algoma, Sudbury, Timiskaming, Nipissing, and Manitoulin Districts and Southern Ontario; Aeromagnetic Compilation Map	ODM/GSC Map P800	1" = 16 miles
		MINERAL POTENTIAL MAPS		
Robertson, James A.	1979	Uranium Mineral Potential Charts for Parts of Southern Ontario: Charts A toI inclusive. Compilation 1977 & 1978	OGS OFR 5260 Chart C	1" = 2 miles
Springer, Janet	1978	Ontario Mineral Potential, Pembroke and Part of the Ottawa Sheets, District of Nipissing and Counties of Renfrew, Hastings, Lennox & Addington, Frontenac, Lanark, Ottawa-Carleton, Grenville, & Dundas; Mineral Deposits Series, compilation 1976	OGS Map P1507	1:250,000
Springer,J.S., Robertson, J.A., Vos,M.A.	1982	Mineral Potential Map of Ontario 1979: Southern Sheet, accompanied by 1 overlay, compilation 1979	OGS OFR 5328	1" = 16 miles
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Bishop,A.G.	1978	The Geology and Genesis of the Calabogie Iron Deposits, Renfrew County, Ontario; unpublished M.Sc. thesis, Carleton University, Ontario; abstract in Canadian Institute of Mineralogy & Metallurgy Bulletin, November 1980		p.42
Rose, E.R.	1954	Iron Deposits of Eastern Ontario and their Origin; Ph.D. Queens University		

GDIF FORM NO.9

SELECTED REFERENCES

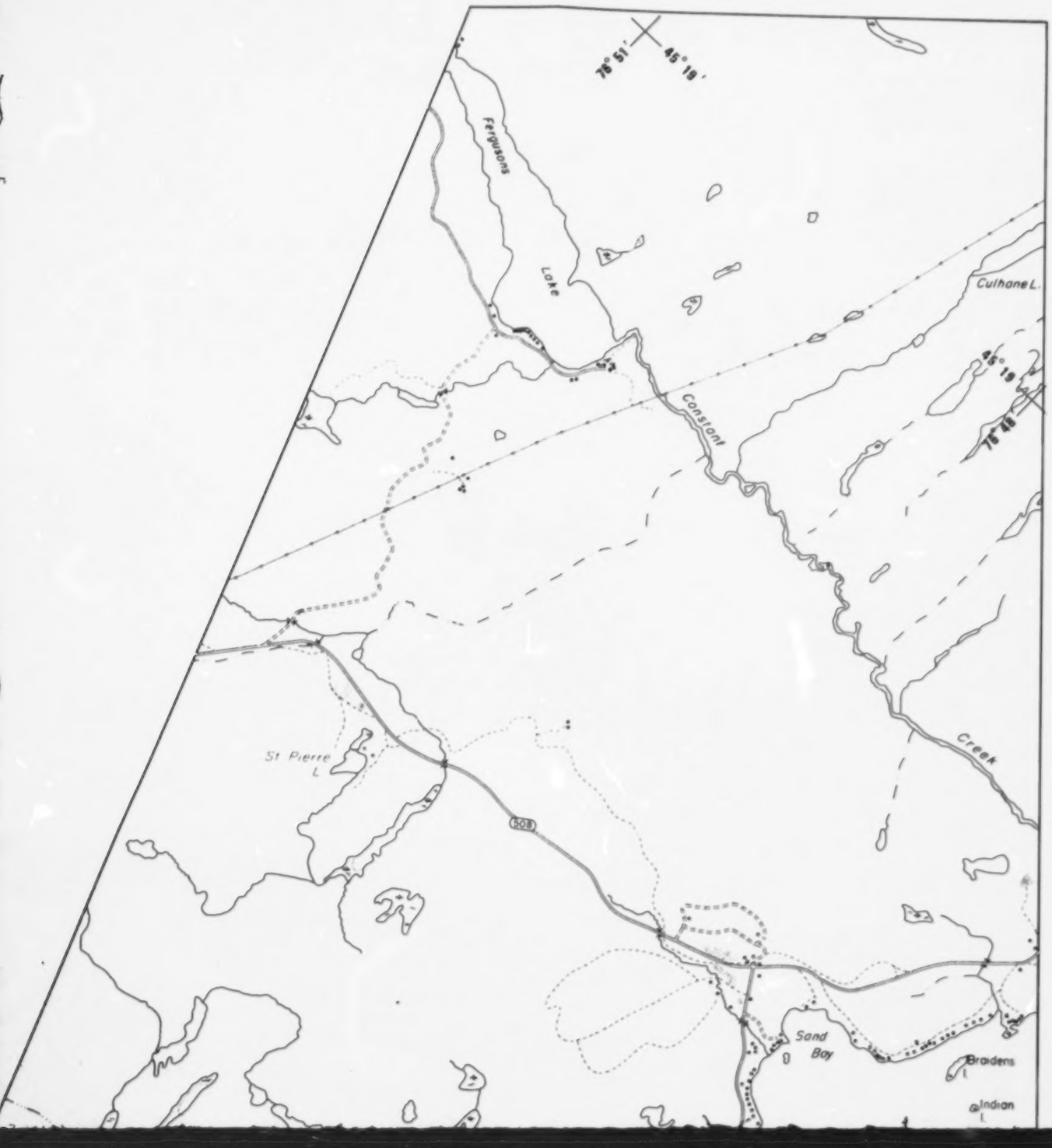
Author	Date	Title	Reference	Map Scales and/or Report Pages

GDIF FORM NO. 9

NOTES AND ADDENDA

GDIF FORM NO.10

78° 51'
45° 19'
Fergusons
Lake
Culhane L.
Consiant
Creek
508
Sand
Bay
Braidens
Indian



Ministry of Natural Resources
Ontario

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

(Map 1 of 2)

to accompany GEOLOGICAL DATA

INVENTORY FOLIO 170

BLITHFIELD TOWNSHIP

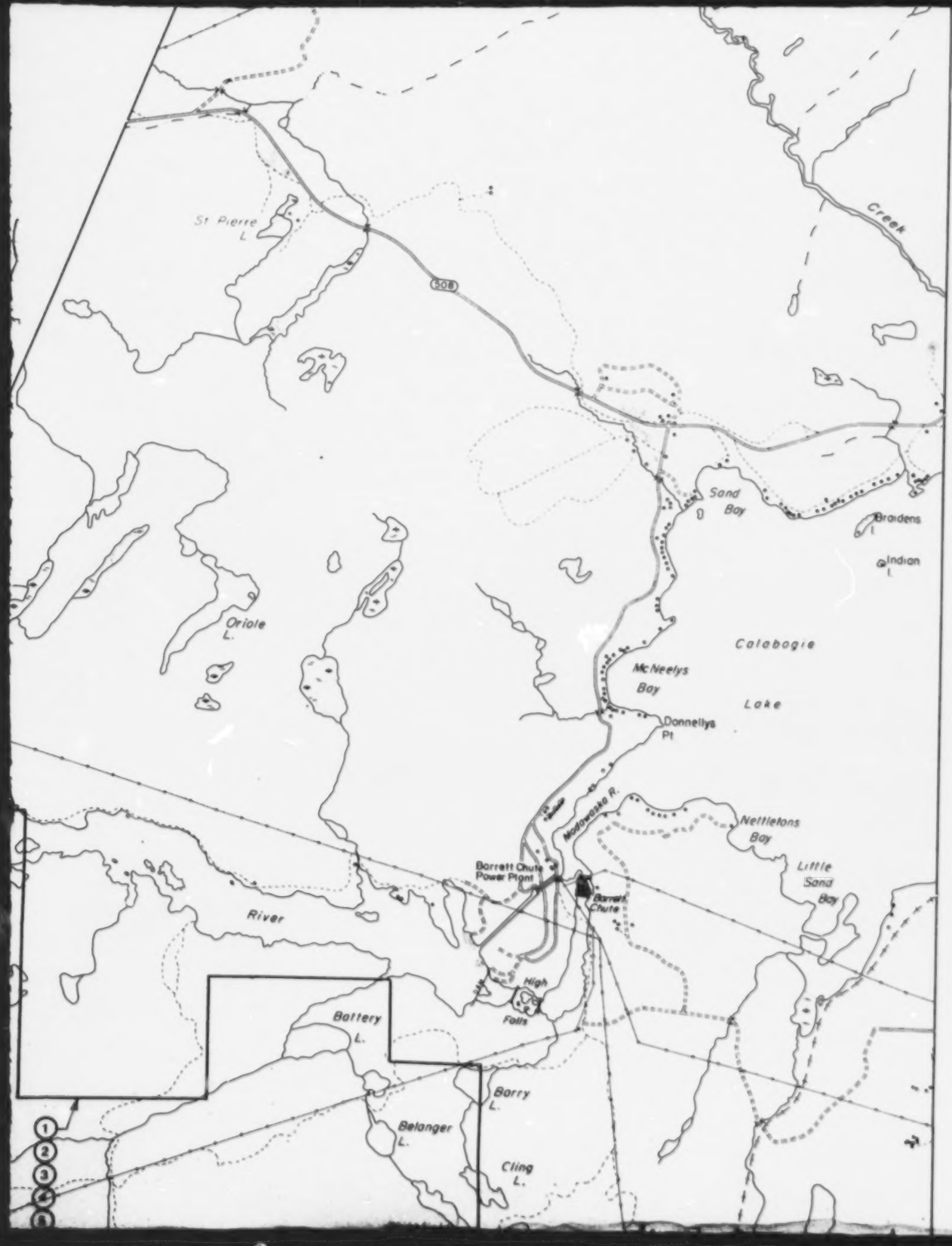
COUNTY OF RENFREW

Scale 1:31 680

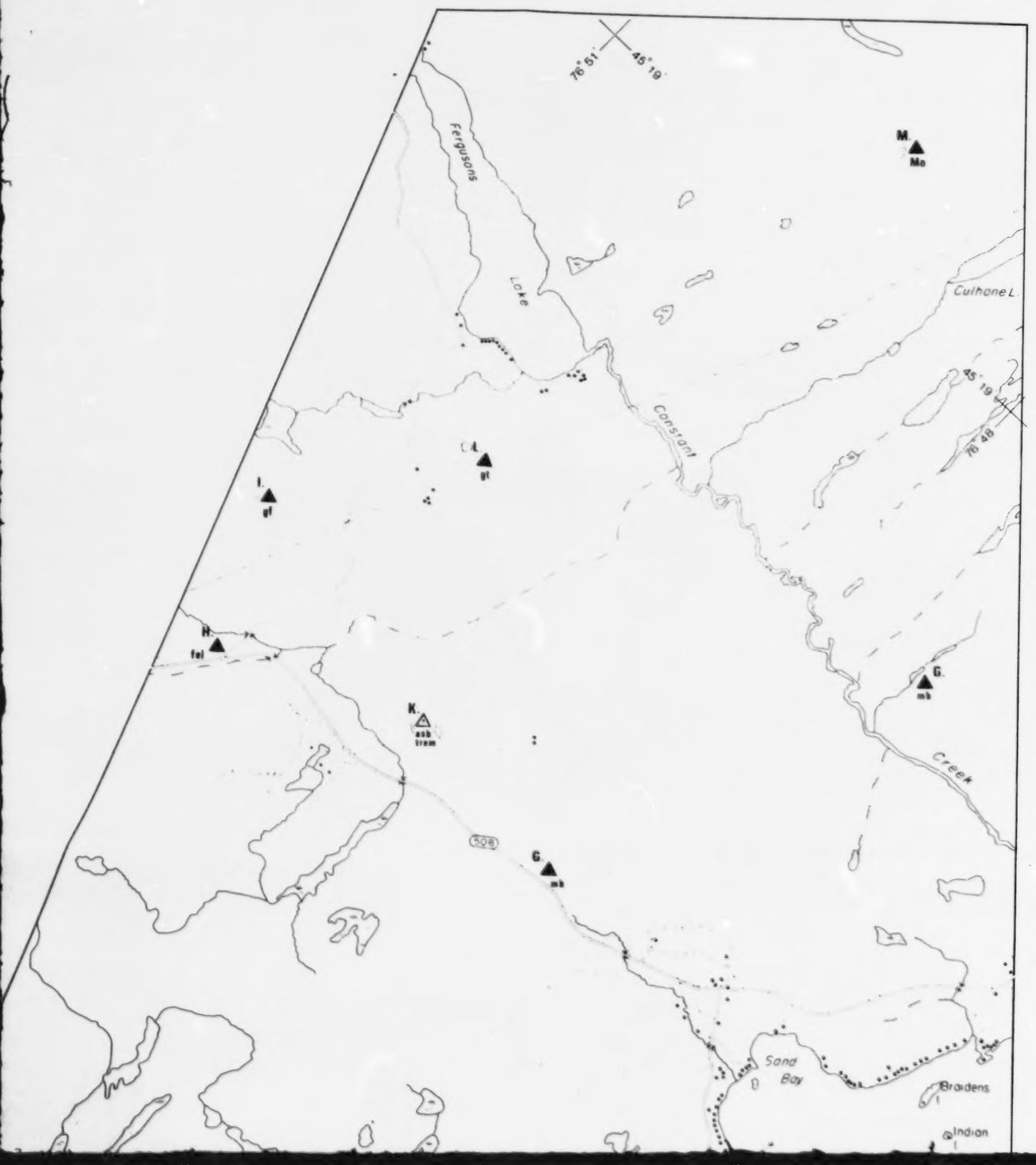
Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

St Pierre L.
508
Creek
Sand Bay
Braidens I.
Indian I.
Oriole L.
Calabogie
McNeelys Bay
Lake
Donnellys Pt
Madawaska
Madawaska R.
Nettletons Bay
Little Sand Bay
Barrett Chute Power Plant
Barrett Chute
River
High Falls
Battery L.
Barry L.
Belanger L.
Cling L.
1
2
3
4
5


St Pierre L.
Creek
Sand Bay
Braidens
Indian
Oriole L.
Calabogie
McNeelys Bay
Lake
Donnellys Pt
Madawaska R.
Nettletons Bay
Little Sand Bay
Barrett Chute Power Plant
Barrett Chute
River
High Falls
Battery L.
Barry L.
Belanger L.
Cling L.
1
2
3
4
5

76°51'
45°19'
Fergusons
Lake
Culhane L.
Corrigan
45°19'
76°48'
M.
Mo
L.
gl
I.
gl
H.
fol
K.
asb
trem
G.
mb
G.
mb
508
Creek
Sand
Bay
Braidens
TYP



Ministry of Natural Resources

Ontario

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 170

(Map **2** of **2**)

BLITHFIELD TOWNSHIP

COUNTY OF RENFREW

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

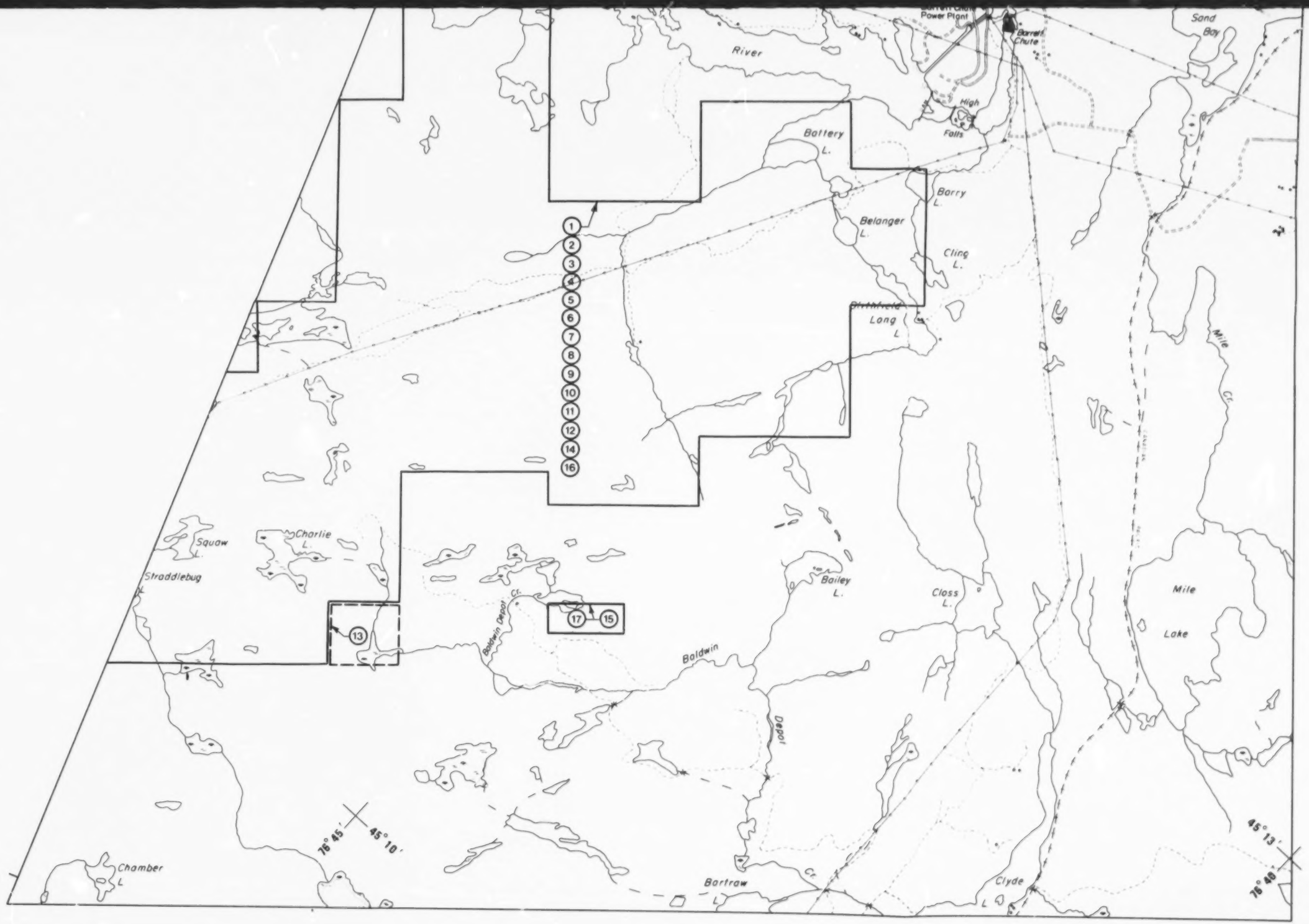
GEOLOGICAL AND MINING SYMBOLS

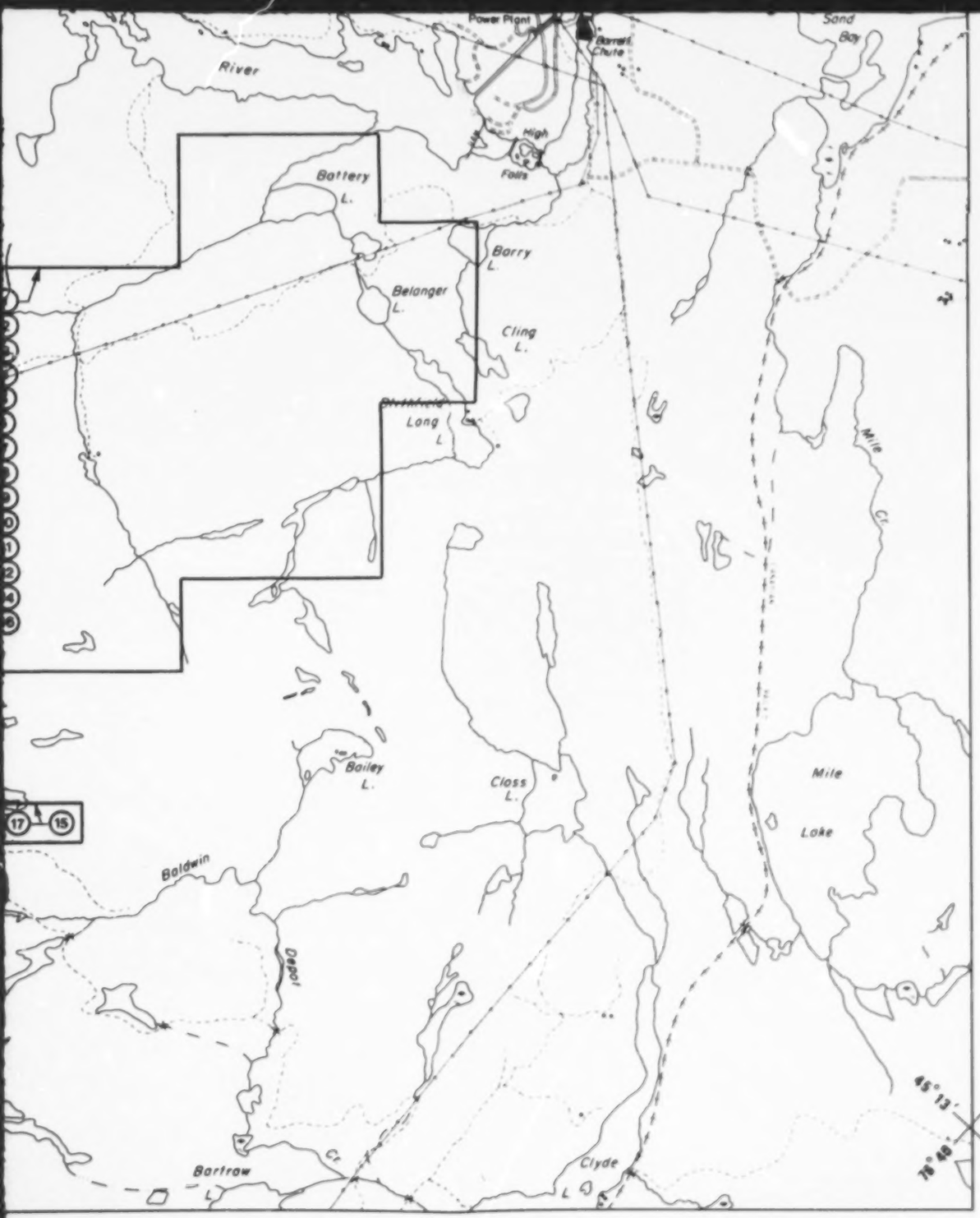
TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- Mineral occurrence at surface, with reference letter
- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with reference letter
- Mineralized Float with reference letter

DRILL HOLES

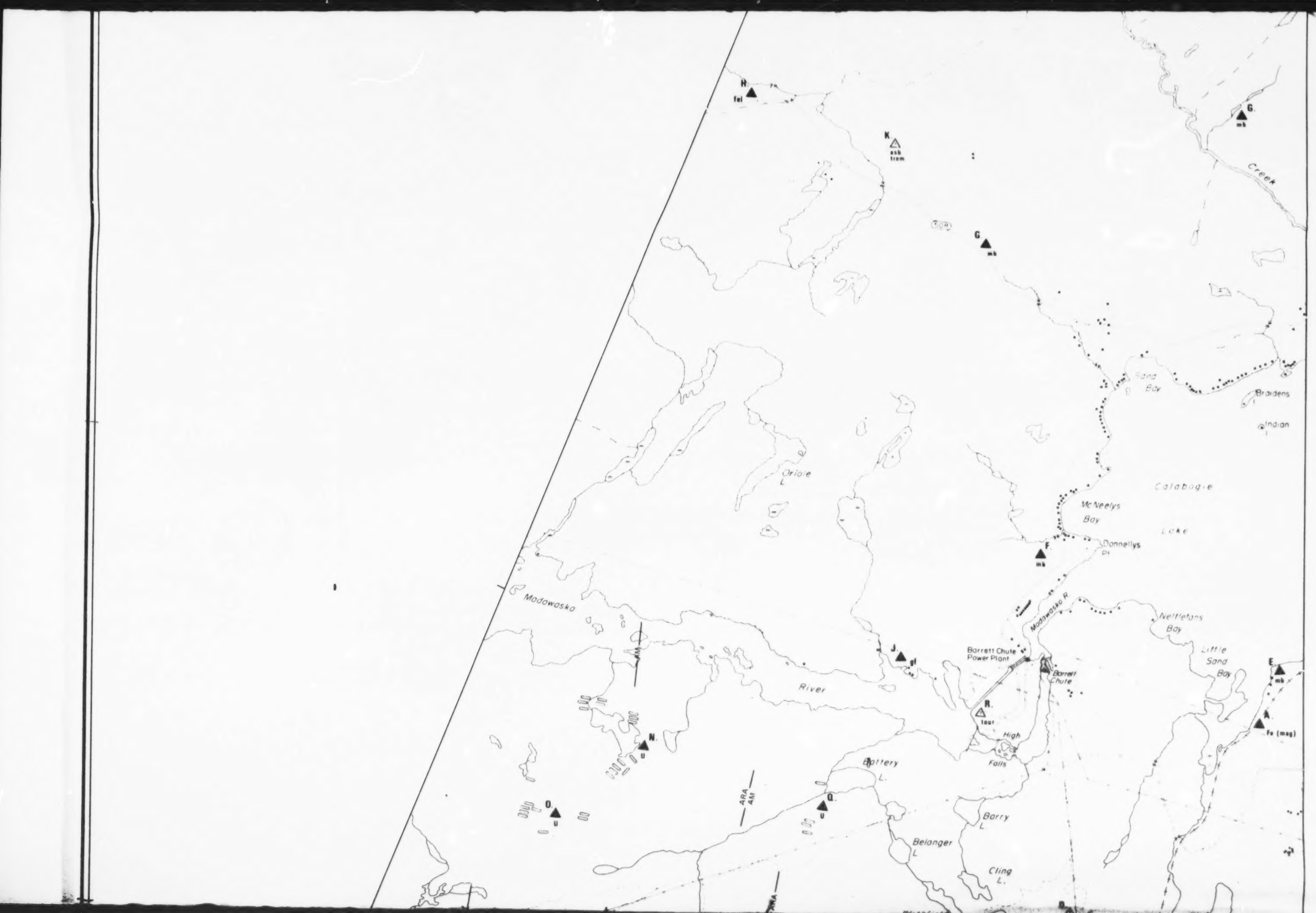

River
Power Plant
Barrett Chute
Sand Bay
High Falls
Battery L.
Barry L.
Belanger L.
Cling L.
Birthfield
Long L.
Mile Cr.
1
2
3
4
5
6
7
8
9
10
11
12
14
16
Squaw L.
Charlie L.
Straddlebug
13
Baldwin Depot Cr.
17
15
Bailey L.
Closs L.
Mile Lake
Baldwin
Depot
76° 45'
45° 10'
Chamber L
Bartraw L.
Cr.
Clyde L.
45° 13'
76° 48'



EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined.
See listing in text pages

Small area of exploration data


H
fel
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ash
trom
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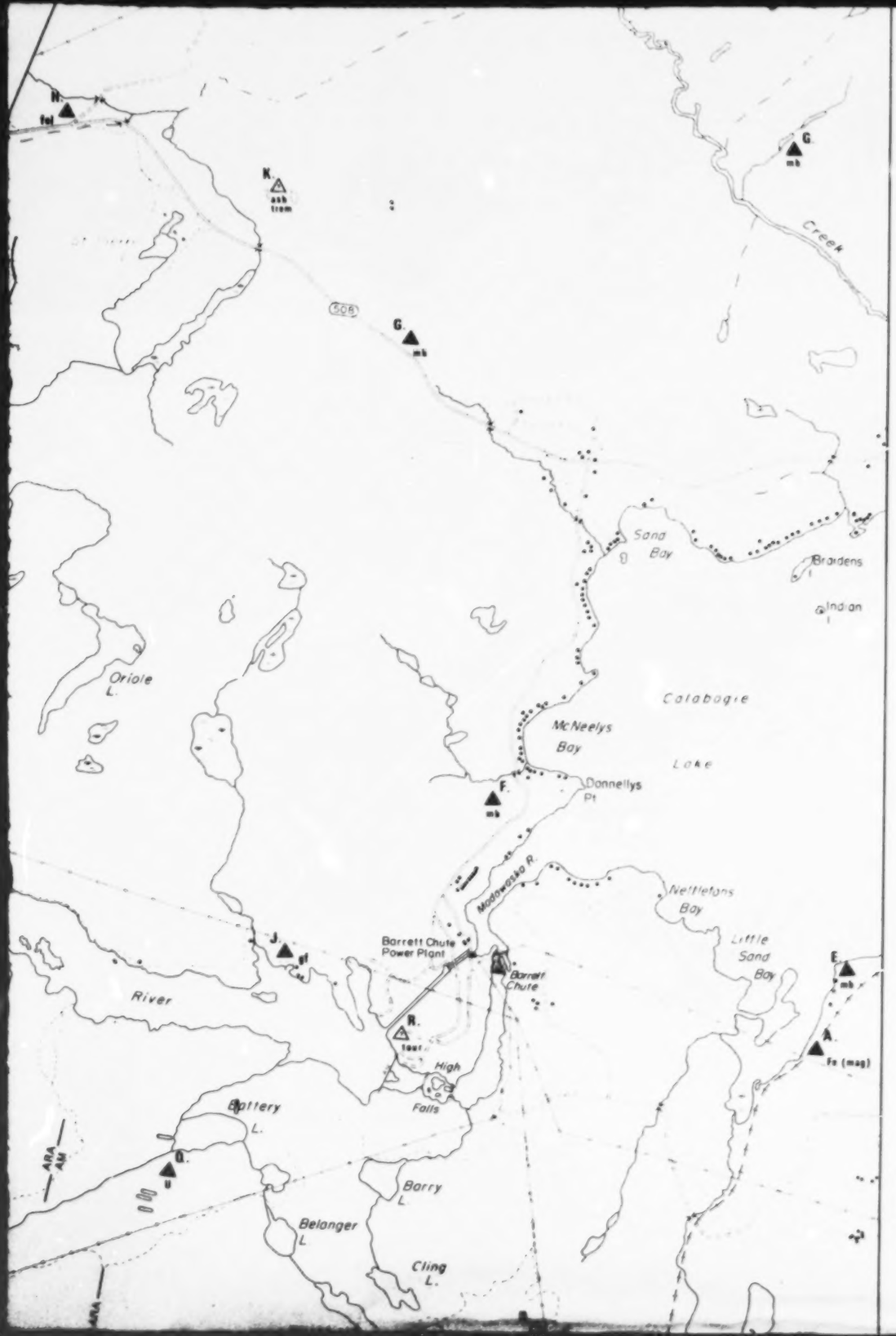
mb
Creek
G
mb
Sand
Bay
Braidens
Indian
Oriole
L
Calabogie
Lake
McNeelys
Bay
Donnellys
Pt
F
mb
Madawaska
River
Madawaska R
Nettletons
Bay
Little
Sand
Bay
J
gl
Barrett Chute
Power Plant
Barrett
Chute
E
mb
R.
tour
A.
Fe (mag)
High
Falls
N.
u
Battery
L.
O
u
ARA
AM
Q.
u
Barry
L
Belanger
L
Cling
L.
TYPES



GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- Mineral occurrence at surface, with reference letter
- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with reference letter
- Mineralized Float with reference letter

DRILL HOLES

- Location of single drill hole, with reference number
- Location of closely spaced group of drill holes, with reference number
- Drill hole, exact location uncertain, with reference number.
- Property with underground drill holes in this general area, with reference number
- Property with drill holes which have not been plotted on map, with reference number
- Reverse Circulation Drill Hole; Churn drilling, with reference number

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- Airborne Magnetometer Anomaly

River

Power Plant

Barrett Chute

Sand Bay

High Falls

Battery L.

Barry L.

Belanger L.

Cling L.

Whitefield Long L.

Mile Lake

Mile Cr.

Squaw L.

Charlie L.

Baldwin Depot Cr.

Baldwin

Bailey L.

Closs L.

Depot Cr.

Bartraw L.

Clyde L.

Chamber L.

45°10'
76°45'

45°13'
76°40'

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- ☐ Geochemical sample site, with reference number
- ☐ Area of geochemical sampling, with reference number
- ☐ Age dating material sampling site, with reference number
- ☐

GEOPHYSICAL ANOMALIES

- ☒ AM — Airborne Magnetometer Anomaly
- ☐ Airborne Electromagnetometer Anomaly
  Length of anomaly along flight line
- ☐ Airborne Electromagnetometer Anomaly.
  Location of anomaly along flight line
- ☐ Airborne Electromagnetometer Anomaly
  Conductor Axis: definite, probable, possible
- ☒ ARA — Airborne Radiometric Anomaly
- ☐ M — Ground Magnetometer Anomaly
- ☐ VL — Ground Electromagnetometer Anomaly
  (VL - Vertical Loop; HL - Horizontal Loop;
  VLF - Very low freq; Turam; JEM -
  Crone EM - 16)
- ☐ RA — Ground Radiometric Anomaly
- ☐ IP — Induced Polarization Anomaly
- ☐ SP — Self Potential Anomaly
- ☐ AFMAG — Audio-frequency magnetometer anomaly
  (total intensity)
- ☐ R — Resistivity Anomaly
- ☐ GR — Gravity Anomaly
- ☐

MISCELLANEOUS DATA

- ☒ Trenching, pit
- ☐ Adit
- ☒ Open cut
- ☐
- ☐ Rock quarry
- ☐ Sand and/or gravel pit
- ☐

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.